

What is claimed is:

1. An electrostatic chuck comprising:
  - a substrate;
  - a dielectric layer formed by thermal spraying on an upper face of the substrate;
  - an internal electrode embedded in the dielectric layer;
  - a feeder terminal portion extending from a lower face of the substrate to the internal electrode; and
  - an electrode provided in the feeder terminal portion,wherein the feeder terminal portion and the substrate are fixed to each other by mechanical joining.
2. The electrostatic chuck according to claim 1, wherein the feeder terminal portion is structured so as to be removably mounted to the substrate.
3. The electrostatic chuck according to claim 1, wherein the feeder terminal portion is composed of members which are fixed to each other by brazing, diffusion bonding, or soldering.
4. The electrostatic chuck according to claim 1, wherein the electrode provided in the feeder terminal portion is made of an elastic body.
5. A production method for an electrostatic chuck comprising steps of:

forming a first dielectric layer by thermal spraying on an upper face of a substrate;

providing a part of an electrode and a jig on the substrate;

forming an internal electrode by thermal spraying on an upper face of the part of an electrode, the jig and the first dielectric layer,

forming a second dielectric layer by thermal spraying on an upper face of the internal electrode;

removing the jig from the substrate; and

mounting a feeder terminal portion to the substrate by mechanical joining.

6. The production method for an electrostatic chuck according to claim 5, wherein the feeder terminal portion is structured so as to be removably mounted to the substrate.

7. The production method for an electrostatic chuck according to claim 5, wherein the feeder terminal portion is composed of members which are fixed to each other by brazing, diffusion bonding, or soldering beforehand.

8. The production method for an electrostatic chuck according to claim 5, wherein the electrode provided in the feeder terminal portion is made of an elastic body.